

**What is claimed is:**

1. A radio communication system for performing multicast communication comprising:

5 a reception ability value collector configured to collect a reception ability value of a mobile station belonging to a specific multicast group;

a transmission method determiner configured to determine a transmission method of transmitting information in accordance with the collected reception ability value;

10 a transmitter configured to transmit the information to the mobile station using the determined transmission method; and

a radio resource manager configured to manage available radio resources;

15 and wherein the transmission method determiner determines the transmission method in accordance with the reception ability value and the available radio resources, so that a mobile station equipped with a predetermined reception ability can receive the information using the determined transmission method.  
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2. A radio station comprising:

25 a reception ability value collector configured to collect a reception ability value of a mobile station belonging to a specific multicast group;

a transmission method determiner configured to determine a transmission method of transmitting information in accordance with the collected reception ability value; and

a transmitter configured to transmit the information to

the mobile station using the determined transmission method;

and wherein the transmission method determiner determines the transmission method so that a mobile station equipped with the best reception ability can receive the information using the determined transmission method.

3. A radio station comprising:

a reception ability value collector configured to collect a reception ability value of a mobile station belonging to a specific multicast group;

a transmission method determiner configured to determine a transmission method of transmitting information in accordance with the collected reception ability value; and

a transmitter configured to transmit the information to the mobile station using the determined transmission method;

and wherein the transmission method determiner determines the transmission method so that a mobile station equipped with the worst reception ability can receive the information using the determined transmission method.

4. A radio station comprising:

a reception ability value collector configured to collect a reception ability value of a mobile station belonging to a specific multicast group;

a transmission method determiner configured to determine a transmission method of transmitting information in accordance with the collected reception ability value;

a transmitter configured to transmit the information to the mobile station using the determined transmission method;

and

a radio resource manager configured to manage available radio resources;

and wherein the transmission method determiner  
5 determines the transmission method in accordance with the reception ability value and the available radio resources, so that a mobile station equipped with a predetermined reception ability can receive the information using the determined transmission method.

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5. The radio station according to any one of claims 2 to 4, wherein the reception ability value is defined by at least one of a demodulation method, a reception buffer size, a computing processing ability, an error correction method and an  
15 interleaving length.

6. The radio station according to any one of claims 2 to 4, wherein the transmission method is determined by at least one of a modulation method, transmission power, a method of  
20 organizing the information hierarchically, the amount of data, the numbers of codes, an error correction method, the numbers of blocks, an interleaving length and a rate matching method.

7. The radio station according to any one of claims 2 to 4,  
25 wherein the radio resource is defined by at least one of transmission power, the numbers of codes, the numbers of frequencies and propagation conditions.